

ifm electronic



Operating instructions

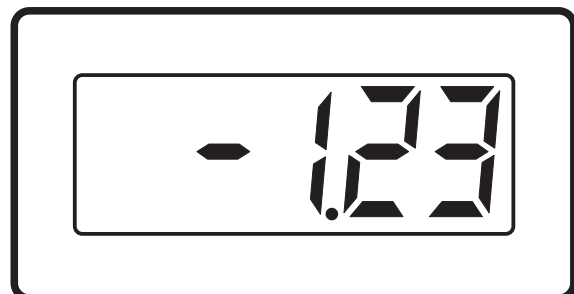
ecomat200[®]

LC display

E89150

UK

701277 / 01 04 / 1998



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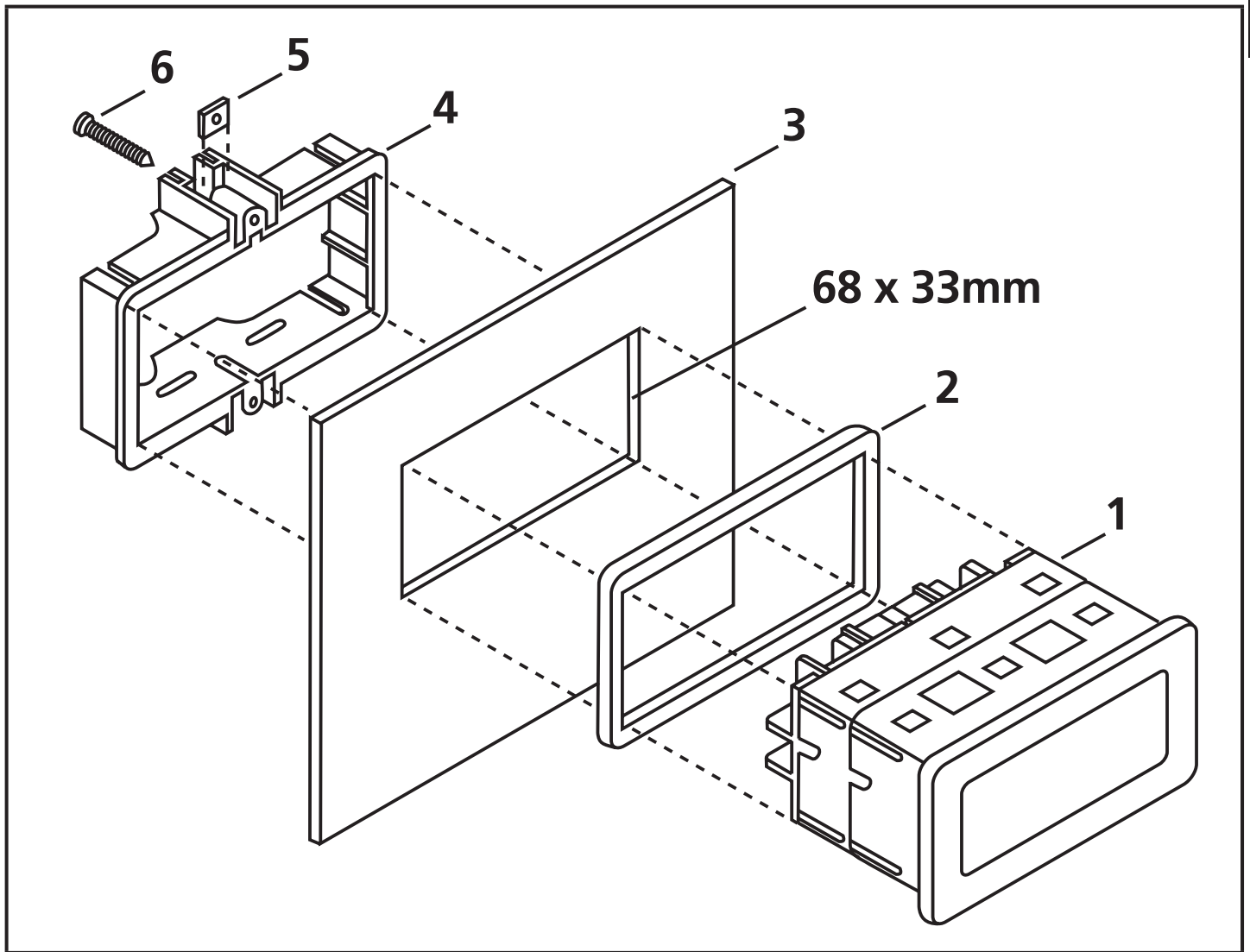
This document is the original instructions.

1 Function and features

The display indicates analog output values of pulse evaluation systems, pressure sensors, flow sensors and suchlike. It is directly switched into the current loop of the output which supplies the display with voltage.

- Current range: 4...20 mA or 10...50 mA.
- Display with free scaling: -1999...1999 (zero point) / 0...2000 (maximum value).

2 Installation



- 1: Unit
- 2: Washer
- 3: Control panel
- 4: Clamping frame
- 5: Square nuts
- 6: Mounting screws

1. Cut 68 x 33 mm out of the control panel, debur and degrease it.
2. Glue the washer to the front of the control panel. Not to the display.

3. Insert the two square nuts into the clamping frame. Screw in the mounting screws. The tips must not protrude.
4. Insert the unit into the control panel.
5. Push the clamping frame onto the unit until it latches firmly.
6. Tighten the two mounting screws alternately until the washer is pressed together to 75 to 80 % of its original thickness. The display is then dust-tight and jet-proof to IP 65 from the front.

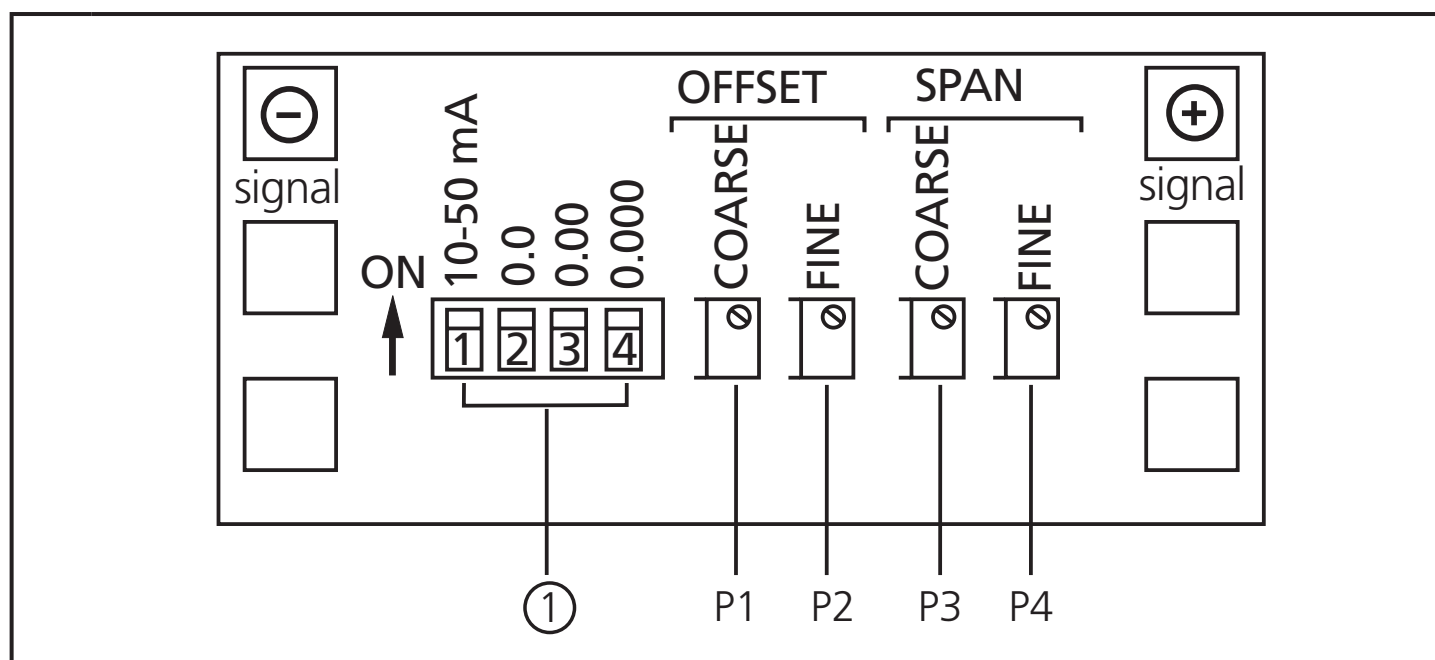
3 Electrical connection

⚠ WARNING

The unit must only be connected by an electrician.

- ▶ Isolate power supply before connecting the unit; connection to terminals "signal +" und "signal -".
- ▶ In order to avoid malfunction caused by interference, lay the sensor cable separately from the load cable.

4 Adjustment



1: DIP switch

P1: Coarse setting min. value

P2: Fine setting min. value

P3: Coarse setting max. value

P4: Fine setting max. value

4.1 Adaptation to the current range

The standard setting of the unit is 4...20 mA.

- ▶ Set the DIP switch 1 to ON to select the range of 10...50 mA.

4.2 Setting the decimal point

The basic setting is a display without decimal places.

- ▶ Set the DIP switch 2 (or 3 or 4) to ON if one (or 2 or 3) decimal places are to be indicated.

4.3 Scaling the displayed range

1. Apply the lowest signal; set approximately the requested minimum value of the display by means of potentiometer P1.
2. Apply the highest signal; set approximately the requested maximum value of the display by means of potentiometer P3.
3. Repeat steps 1 and 2 until the requested values are indicated approximately.
4. Repeat steps 1 and 2 with potentiometer P2 (fine setting minimum value) and potentiometer P4 (fine setting maximum value) until the requested values are indicated.

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